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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/052,924	01/18/2002	Nima Mokhlesi	M-11821 US	1035	
7:	590 04/09/2003				
Michael G. Cl		EXAMINER			
SKJERVEN MORRILL MacPHERSON LLP 28th Floor Three Embarcadero Center San Francisco, CA 94111			HOANG, HUAN		
			ART UNIT	PAPER NUMBER	
			2818		

Please find below and/or attached an Office communication concerning this application or proceeding.

f		Application No.	Applicant(a)	(1)			
Office Action Summary			Applicant(s)	•			
		10/052,924	MOKHLESI ET AL.				
		Examiner	Art Unit				
	Th MAILING DATE of this communication ap	Huan Hoang	2818				
Period fo	or Reply	pears on in cover she i while in	n correspona nce adar s	s			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)	Responsive to communication(s) filed on						
2a)		— · his action is non-final.					
3)	Since this application is in condition for allow		s. prosecution as to the me	erits is			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)🖂	4)⊠ Claim(s) <u>1-70</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠	Claim(s) 1-28 is/are allowed.						
6)⊠	Claim(s) 29-35,39,40,45,46 and 51-70 is/are r	ejected.					
7) 🗌	Claim(s) <u>36-38,41-44 and 47-50</u> is/are objected	ed to.					
	Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers							
	The specification is objected to by the Examine						
10)[1	The drawing(s) filed on is/are: a)□ acce	•					
	Applicant may not request that any objection to th						
11)∟_ ⊺	The proposed drawing correction filed on		proved by the Examiner.				
: -> -	If approved, corrected drawings are required in reply to this Office action.						
	12) The oath or declaration is objected to by the Examiner.						
_	nder 35 U.S.C. §§ 119 and 120						
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 52 and 53-70 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 52 is not complete with the word "and" at the end of the claim and does not end with a period.

The recitation "drivers connected to the memory storage

an episodic stimulus voltage condition." (claim 53, lines 5-

6) is unclear. A blank between the two above phrases renders the claim vague and indefinite.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claims 29-35, 39, 40, 45, 46 and 51 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamada et al..

Yamada et al. discloses of operating of a non-volatile memory having all the steps as recited in claims 29-35, 39, 40, 45, 46 and 51 as follows:

- applying a set of voltages (Fig. 6A) to a storage unit (memory cell) during an interval (programming, column 4, lines 34-36);
- determining the conduction characteristics (Fig. 6C) of the storage unit in response to the set of voltages, wherein the set of voltages includes an episodic stimulus component (column 6, line 65 to column 7, line 1).
- 5. Claims 53-57, 59 and 63 are rejected under 35 U.S.C. 102(b) as being anticipated by Schreck.

Schreck discloses a non-volatile memory having all the elements as recited in claims 53-57, 59 and 63 as follows:

- a memory storage unit (memory cell); and
- drivers connected to the memory storage unit an episodic stimulus condition (Fig. 2g and column 9, lines 5-18).

The sense amplifier to determine the state of the memory cell is inherent.

Allowable Subject Matter

6. Claims 1-28 are allowed.

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7. Claims 36-38, 41-44, 47-50 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 52, 58, 60-62 and 64-70 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claims 1-28, 36-38, 41-44, 47-50, 52, 58, 60-62 and 64-70 recite various features that are not found in the prior art. The advantage of the invention is to reduce of noise in reading of a non-volatile storage device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan Hoang whose telephone number is (703) 305-3494. The examiner can normally be reached on Mon-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C Nelms can be reached on (703) 308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-8318 for regular communications and (703) 872-9319 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Huan Hoang Primary Examiner Art Unit 2818

HH April 5, 2003